

UNITED STATES PATENT AND TRADEMARK OFFICE



UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/772,907	01/31/2001	Masaichi Murakami	108483	1105
25944 7	590 11/13/2003		EXAMINER	
OLIFF & BERRIDGE, PLC			MATHEWS, ALAN A	
P.O. BOX 19928 ALEXANDRIA, VA 22320			ART UNIT	PAPER NUMBER
			2851	
			DATE MAILED: 11/13/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

\$47 T		<u> </u>				
	Application No.	Applicant(s)				
Office Action Comment	09/772,907	FUJITSUKA ET AL.				
Office Action Summary	Examiner	Art Unit				
	Alan A. Mathews	2851				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). Status	36(a). In no event, however, may a reply be ting within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).				
1) Responsive to communication(s) filed on 04 Se	eptember 2003.					
2a) This action is FINAL . 2b) ☐ This a	action is non-final.					
3) Since this application is in condition for allowar closed in accordance with the practice under E						
Disposition of Claims						
4) Claim(s) 12-32 is/are pending in the application	☑ Claim(s) <u>12-32</u> is/are pending in the application.					
4a) Of the above claim(s) is/are withdraw	4a) Of the above claim(s) is/are withdrawn from consideration.					
S) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>12-32</u> is/are rejected.	☑ Claim(s) <u>12-32</u> is/are rejected.					
7) Claim(s) is/are objected to.	- ' ' '					
8) Claim(s) are subject to restriction and/or	r election requirement.					
Application Papers						
9) The specification is objected to by the Examine	r.					
10)☐ The drawing(s) filed on is/are: a)☐ acce						
Applicant may not request that any objection to the						
Replacement drawing sheet(s) including the correcti						
11)☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.				
Priority under 35 U.S.C. §§ 119 and 120						
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents		a)-(d) or (f).				
Certified copies of the priority documents Copies of the certified copies of the prior application from the International Bureau See the attached detailed Office action for a list of the priority documents.	s have been received in Applicati rity documents have been receive u (PCT Rule 17.2(a)).	ed in this National Stage				
 13) Acknowledgment is made of a claim for domestic since a specific reference was included in the firs 37 CFR 1.78. a) The translation of the foreign language pro 	c priority under 35 U.S.C. § 119(output) st sentence of the specification or	e) (to a provisional application) r in an Application Data Sheet.				
14) Acknowledgment is made of a claim for domestic reference was included in the first sentence of the	c priority under 35 U.S.C. §§ 120	and/or 121 since a specific				
Attachment(s)	_					
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 17 	5) Notice of Informal F	(PTO-413) Paper No(s) Patent Application (PTO-152)				

Application/Control Number: 09/772,907

Art Unit: 2851

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after allowance or after an Office action under *Ex Parte Quayle*, 25 USPQ 74, 453 O.G. 213 (Comm'r Pat. 1935). Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, prosecution in this application has been reopened pursuant to 37 CFR 1.114. Applicant's submission filed on September 4, 2003, has been entered.

Drawings

2. The drawings are objected to because in figure 23, numeral "16" does not correspond to page 48, line 14, which is reciting the numeral "116" as the pixel portion. A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

Page 3

Application/Control Number: 09/772,907

Art Unit: 2851

A person shall be entitled to a patent unless -

- (a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.
- Claims 12-32 are rejected under 35 U.S.C. 102(a) as being anticipated by the PCT 4. Publication WO99/66370 (cited on Applicant's PTO-1449). It is noted that Nishi (U. S. Patent Application Publication No 2001/004297, cited on Applicant's PTO-1449) is in the same patent family, and will be used as a translation of PCT Publication WO99/66370). The PCT Publication WO99/66370 qualifies as prior art under 102(a), which is a better date than U. S. Patent Application Publication No 2001/004297. In Nishi (which is used as a translation of PCT) Publication WO99/66370), paragraphs # 106 (lines 8-10), #113 (lines 6 and 7), 167(lines 11 and 12), and #181 (lines 28 and 29), recite that the mask and the substrate move in synchronization. Pages 15 - 19, paragraphs # 176-196 discloses exposing overlapping portions of first and second patterns. As one example, figure 15 and paragraph # 178 discloses that the exposure light amount in the boundary region 235 is twice as great as the exposure light amount in the partial regions S1 to SN. In order to make the exposure light amount in the boundary region 235 equal to that in the partial pattern regions S1 to SN, when the pattern images of the master reticles R1 to RN are exposed to light, the exposure light amount of the overlapping portion is set smaller as approaching the periphery. As another example, paragraph # 193 discloses lowering the exposure light amount as approaching the outer side when the images of patterns of the overlapping portions 253 and 254. Paragraph # 196 discloses using speed to reduce images of the overlapping portions 253 and 254 to the exposed the boundary regions 261A and 162A. The reticle blind is element 207 in figure 14.

Page 4

Application/Control Number: 09/772,907

Art Unit: 2851

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Alan A. Mathews whose telephone number is (703) 308-1706. The examiner can normally be reached on Monday through Friday from 8:00 AM to 4:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Russ Adams can be reached on (703) 308-2847. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

Alan A. Mathews Primary Examiner Art Unit 2851

AAM